Dante Video

Switch setup

Typical installation

One Dante AV transmitter sends a multicast video stream to two receivers on a dedicated gigabit switch, using VLAN 1.

1 Connect and check the links

Connect the endpoints and your laptop to the same AV network. Open the switch's management address in a browser and sign in. In System Information, confirm NRS8T2P. Use Configuration > Ports to check the connected links. Check that the selected video format fits each link with room to spare.

2 Turn off port energy saving

Open Configuration > Green Ethernet > Port Power Savings. Clear EEE (Energy Efficient Ethernet) on the ports carrying this traffic and save. This keeps those links awake.

3 Send video only to subscribed receivers

Under Configuration > IPMC > IGMP Snooping > Basic Configuration, enable Snooping and save. Keep Fast Leave clear. Under VLAN Configuration, enable Snooping and Querier Election on VLAN 1. Save. The querier checks which receivers still want each stream.

4 Give timing and audio priority

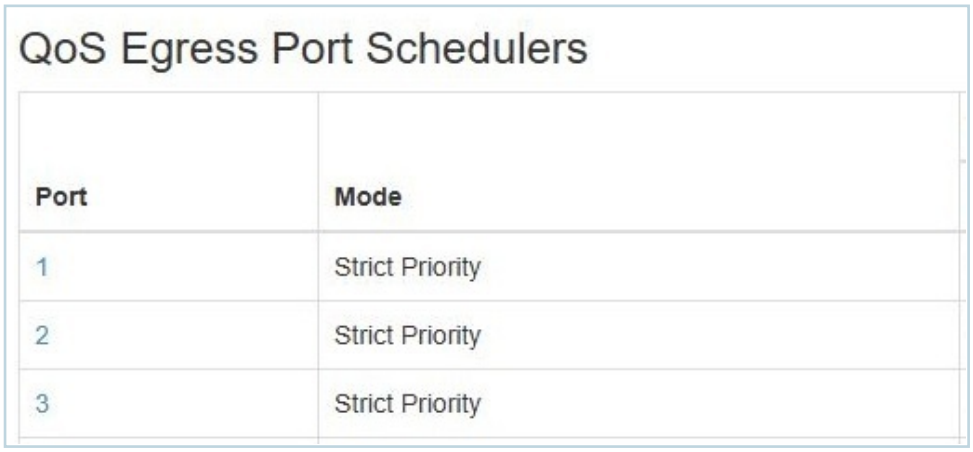
Configuration > QoS > Port Classification: select DSCP Based on the ports carrying this traffic. Under DSCP-Based QoS, select Trust for the values below and assign their classes. Save each page. Set 56 to class 7, 46 to 6, 8 to 5 and leave 0 at best effort. Under QoS > Port Scheduler, verify Strict Priority on the media ports.

Reading the QoS settings

DSCP is a number the sender puts on a packet. The switch reads it and assigns a traffic class. When packets compete for the same outgoing link, the scheduler serves the highest strict-priority class first.

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Save and test



QoS Egress Port Schedulers

Port	Mode
1	Strict Priority
2	Strict Priority
3	Strict Priority

Port Scheduler shows the queue service mode for each port.

Save the settings

Click Save on each page you changed. Open Maintenance > Configuration > Save startup-config. Click Save Configuration and wait for “startup-config saved successfully.” Reopen the changed page and check the values.

Test with the equipment

In Dante Controller, subscribe both receivers to the transmitter’s video channel. Confirm a stable picture on both displays. Remove one subscription; the other picture should continue. Check Monitor > Ports > Traffic Overview for increasing errors or drops.

When the installation differs

Use your transmitter’s published bitrate for the chosen format. A second stream sharing a link uses additional capacity. If the site already has a querier, keep it as the elected querier.

References

Niveo NRS user manual
Audinate network settings